

**To:** Koglin, Eric[Koglin.Eric@epa.gov]  
**From:** Sayles, Gregory  
**Sent:** Fri 8/14/2015 6:54:44 PM  
**Subject:** Fwd: remote sensing response to Gold King Mine spill into the Animas River

You spoke with Blake earlier this week, right?

Gregory Sayles  
EPA's Homeland Security Research  
513-569-7607 desk-513-305-9984 cell

Begin forwarded message:

**From:** "Orme-Zavaleta, Jennifer" <[Orme-Zavaleta.Jennifer@epa.gov](mailto:Orme-Zavaleta.Jennifer@epa.gov)>  
**Date:** August 14, 2015 at 2:07:40 PM EDT  
**To:** "Sayles, Gregory" <[Sayles.Gregory@epa.gov](mailto:Sayles.Gregory@epa.gov)>, "Kavlock, Robert" <[Kavlock.Robert@epa.gov](mailto:Kavlock.Robert@epa.gov)>  
**Subject: FW: remote sensing response to Gold King Mine spill into the Animas River**

See below and let me know what you think

Sent from my Windows Phone

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**From:** [Neale, Anne](#)  
**Sent:** 8/14/2015 14:01  
**To:** [Orme-Zavaleta, Jennifer](#); [McDonald, Michael E.](#)  
**Subject:** FW: remote sensing response to Gold King Mine spill into the Animas River

Hi Jennifer and Mike,

You may already have spoken to Blake or others but Taylor brings up a really great point about remote sensing capabilities.

Annie

Anne Neale

EnviroAtlas Project Lead

US EPA, RTP, NC

919-541-3832

**From:** Jarnagin, Taylor

**Sent:** Friday, August 14, 2015 1:42 PM

**To:** Neale, Anne

**Subject:** remote sensing response to Gold King Mine spill into the Animas River

**Importance:** High

Hi Annie,

I think this is an excellent candidate for the use of remote sensing with a multispectral or hyperspectral sensor to identify and map the sediments from the Gold King Mine spill into the Animas River.

Our local talent includes: Blake Schaeffer and Drew Pilant (both of whom could analyze imagery) and David J. Williams (who is working on putting together a sensor just for this type of occasion, unfortunately, I don't think that sensor has been fully tested and is operation right now). The Environmental Photographic Interpretation Center existed for exactly this sort of emergency response capability and to act as a liaison between the contractors who would fly and analyze the imagery and the Regions who had the boots on the ground and were directly responsible for the clean-up.

Our current contact for the capability to do this is:

H. Craig Seaver

Remote Sensing Manager

EPA National Computer Center

Office of Technology Operations and Planning

Office of Environmental Information

Phone: (919) 541-4436

Email: [seaver.craig@epa.gov](mailto:seaver.craig@epa.gov)

Taylor

S. Taylor Jarnagin, Ph.D.

Research Ecologist

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Web Site:

< <http://www.epa.gov/nerlesd1/land-sci/staff/jarnagin.htm> >

Main Research Project:

"Collaborative Research: Streamflow, Urban Riparian Zones, BMPs, and Impervious Surfaces":

< <http://www.epa.gov/nerlesd1/land-sci/clarksburg01-05.htm> >